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SUBJECT: EVALUATION OF OLD HEAD MISSION G-113, FLOWN 15 JAN 70

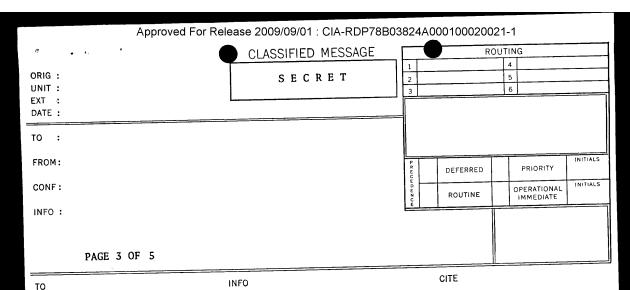
1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY IS POOR TO FAIR. THE MAJOR DEGRADING FACTOR IS IMAGE MOTION RESULTING FROM VEHICLE VIBRATION. THIS DEGRADATION IS MORE NOTICEABLE THAN ON PREVIOUS MISSIONS DUE TO THE USE OF A WIDER SLIT (0.10 INCH). THERE IS A RESULTANT LACK OF EDGE DEFINITION AT MAGNIFICATIONS OF 12X AND ABOVE. IN ADDITION THERE ARE AREAS WITHIN EACH FRAME THAT CONTAIN SMEARED IMAGERY (SCAN DIRECTION). THESE AREAS APPEAR AT RANDOM AND EXTEND ACROSS THE WIDTH OF THE FORMAT. THE INTERPRETATION SUITABILITY RANGES FROM POOR TO FAIR. CLOUD COVER OBSCURES APPROX. 15 PERCENT OF THE ENTIRE MISSION. EXAMINATION OF THE EXPOSURE CHARTS INDICATE THAT THE 0.10 INCH SLIT WIDTH USED ON THIS MISSION WAS CORRECT TO MAINTAIN PROPER EXPOSURE THROUGHOUT. HOWEVER, THE INCREASE IN APPARENT IMAGE MOTION SUGGESTS THAT A REDUCTION IN EXPOSURE DURATION IS NECESSARY. THIS CAN BE ACCOMPLISHED BY USING A WIDER BAND FILTER, A FASTER FILM TYPE, OR PENETRATING AT HIGHER SOLAR ELEVATIONS. OF

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OF THESE ALTERNATIVES, THE FIRST TWO APPEAR TO BE THE MOST FEASABLE; HOWEVER, A CERTAIN AMOUNT OF TESTING SHOULD BE ACCOMPLISHED PRIOR TO THE USE OF EITHER ALTERNATIVE ON AN OPERATIONAL MISSION. THEREFORE, WE FEEL THAT THE USE OF A WRATTEN 12 OR WRATTEN 15 FILTER, OR A FASTER FILM TYPE, POSSIBLE SO-349, SHOULD BE INVESTIGATED.

2. MISSION DATA

- A. G-113, 19 JAN 70
- B. IRIS II, 8011
- C. A/C NO: 339
- D. STEREO
- E. T/O: 1220Z, C/ON: 1430Z
- F. 3404, W-23A
- G. MX-819-1, NRTSC
- H. AVG GAMMA: 1.73
- I. SLIT: 0.100 INCH

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3. ORIGINAL NEGATIVE:

TO

- A. EXPOSURE: THE EXPOSURE RANGES FROM PROPERLY EXPOSED TO SLIGHTLY OVEREXPOSED AT THE END OF THE MISSION.
 - B. DENSITY AND CONTRAST: GENERALLY MEDIUM.
- C. IMAGED DEGRADATIONS: A FISH-HOOK SHAPED AND "V"-SHAPED FOG PATTERN ARE PRESENT ON THIS MISSION. THEY ARE DESCRIBED IN THE EVALUATION OF G-107 (OUT 7580). NUMEROUS SLIT IMAGES (HEAVY IN DENSITY) ARE PRESENT, AT RANDOM, FROM FRAMES 471 - 500. THE IMAGERY IN THE SURROUNDING AREA IS SEVERELY SMEARED. THIS INDICATES THE POSSIBILITY THAT THE LENS CELL ASSEMBLY STOPPED AND STARTED SCANNING AT THESE VARIOUS LOCATIONS. BANDING IS PRESENT AT THE SUPPLY END OF MOST FRAMES. HOWEVER, THERE ARE SEVERAL INSTANCES IN WHICH BANDING IS PRESENT THROUGHOUT THE FRAME.
- D. PHYSICAL DEGRADATIONS: SIX HEAT SPLICES AND ONE ULTRA-SONIC SPLICE ARE PRESENT ON THE MISSION. FINE EMULSION SCRATCHES ARE PRESENT THROUGHOUT THE MISSION.

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E. DATA RECORDING EQUIPMENT: ALL SYSTEMS FUNCTIONED

PROPERLY.

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F. OTHER: THE LAST TITLED FRAME IS 671, COUNTER 671.

4. POSITIVES: THE PRINTING AND PROCESSING ARE GOOD.

END OF MESSAGE

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